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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,325	03/25/2002	Frank Caruso	18744-0003	4612
29052	7590	02/25/2004	EXAMINER	
SUTHERLAND ASBILL & BRENNAN LLP 999 PEACHTREE STREET, N.E. ATLANTA, GA 30309			LE, HOA T	
			ART UNIT	PAPER NUMBER
			1773	

DATE MAILED: 02/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/018,325	CARUSO ET AL	
	Examiner	Art Unit	
	H. T. Le	1773	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 10 November 2003.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-33 is/are pending in the application.
4a) Of the above claim(s) 20 and 21 is/are withdrawn from consideration.

5) Claim(s) 2-6 and 26 is/are allowed.

6) Claim(s) 1,7-19,22-25 and 27-33 is/are rejected.

7) Claim(s) 3,20 and 21 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. ____.
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
5) Notice of Informal Patent Application (PTO-152)
6) Other: ____.

1. Upon reconsideration, indication of allowability of claims 1-29 is hereby partially withdrawn. The reasons are as follows. Delay of this action is sincerely regretted.

Claim Objections

2. Claims 20 and 21 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot be dependent on another multiple dependent claim. See MPEP § 608.01(n). In this case, claims 20 and 21 depend on claims 18 and 19 both of which are multiple dependent claims. Accordingly, the claims 20 and 21 have not been further treated on the merits.

3. Claims 3 and 28 are objected to because of the following misspelling informalities:
In claim 3, last line, “law” should be “low”;
In claim 28, line 2, “multiplayer” should be changed to “multilayer”.
Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. Claim 26 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term “biomolecules” has no antecedent basis.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has

fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 1, 7-19, 22-25 and 27-33 are rejected under 35 U.S.C. 102(e) as being anticipated by Caruso et al (US 6,479,146).*

Claims 1, 7 and 27: Caruso et al disclose coated particles by coating template particles with alternating layers of oppositely charge nanoparticles and polyelectrolytes. The template particles include crystal structures, and the coating is formed by first providing the template particles in a dispersion containing a solvent. See col. 3, lines 10-17; col. 4, lines 35-39; and col. 5, lines 8-10. Providing the template particles in an aqueous dispersion as taught by Caruso would necessarily preserve the crystal morphology of the template particles. In addition, although the specification mentions the criticality of preserving the morphology of a crystal core, the claimed process does not contain such limitation.

Claims 8, 9 and 15: See col. 3, lines 18-22.

Claims 10-14: See col. 3, lines 48 to col. 4, line 6.

Claims 16-19: See col. 4, lines 7-34.

(Claims 20 and 21 have been withdrawn from consideration as discussed above).

Claim 22: See col. 4, lines 35-43.

Claims 23-24: See col. 5, lines 18-27.

Claim 25: col. 6, lines 7-15.

Claim 28: See rejection to claim 23.

Claim 29: See rejection of claims 8 and 9.

Claims 30 and 32: col. 5, lines 17-35.

Claims 31 and 33: col. 5, lines 60-63.

Allowable Subject Matter

7. Claims 2-6 are allowed.
8. Claim 26 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
9. The following is a statement of reasons for the indication of allowable subject matter: although Caruso lists organic materials as the template particles, bio-organic materials are not taught or suggested in the Caruso reference.
10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. T. Le whose telephone number is 571-272-1511. The examiner can normally be reached on 10:00 a.m. to 6:30 p.m., Mondays to Friday.

* copy of this reference has been provided by the examiner in the last office action.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



H. T. Le
Primary Examiner
Art Unit 1773